

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

A292.9
So3.W2
cop. 3

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPT. OF AGRICULTURE
NAT. SOIL CONSERV. LIBRARY
FEB 1 1977
CLARK ST. SEED CO. CORDS

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
JAN. 1, 1977

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SNOW COURSE MEASUREMENTS BY A SURVEY TEAM IN UTAH'S WASATCH RANGE.
ORC-254-10

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, 6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.



Released by

GEORGE D. McMILLAN

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

DEE C. HANSEN

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES



Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

and

KENNETH C. JONES, Assistant Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

WATER SUPPLY OUTLOOK

as of
JANUARY 1, 1977

* * * * *
* Utah's spring and summer water supply outlook is poor, as Utah *
* enters the new year with a record low mountain snow pack. *
* Measurements in the last days of 1976 reported many snow courses *
* bare for the first time in their 30 to 40 year histories. Areas *
* that had measurable snow were only 10 to 20% of their 15 year *
* January 1 averages. Reservoir storage over the state is near *
* January 1 averages, however, many direct inflow facilities are *
* well below typical January 1 levels after a long dry summer and *
* fall. *
* * * * *

SNOW COVER

Snow measurements taken in the last week of December 1976, resulted in new record low January 1 water contents throughout the state. Daniels-Strawberry Summit course in the Duchesne River drainage was bare this year for the first time in its 36 year history. Silver Lake (Brighton) reported it's lowest water content in 35 years with a reading of a modest 0.3 inches as compared with an average 9.9 inches. Thirty percent of the courses measured prior to January 1 were bare of snow. Improvements in moisture contents came with the storm front which crossed the state after the first of the year. Measurements taken since then indicate water contents approaching 50% of January 1 averages.

PRECIPITATION

Fall precipitation in Utah's mountains was also well below average for the October 1 to January 1 period. Most drainages ranged from 20 to 40% of average. King's Cabin (Upper) on the Upper Green River, was an exception with a catch at 103% of average. On the Upper Sevier River, Panguitch Lake reported a reading at 80% of average, while Duck Creek 28%.

RESERVOIR STORAGE

January 1 storage in Utah's irrigation reservoirs ranges from well below to above average depending on the facilities direct inflow abilities. Pineview reservoir is 137% of average while Causey is only 38%. The three major facilities in the Sevier River Basin (Otter Creek, Piute, and Sevier Bridge) contain 131,990 acre feet, or 109% of the 1958-72 average for January 1. Storage on the Weber River is 120% of average. Unless the mountain snow cover improves over the rest of the winter, many areas served by stored water may well experience shortages. Historically low January 1 snow course readings have meant a below average snow pack later in the year, with a resulting decrease in spring and summer stream flows.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1059.0	1095.2	944.4
	Woodruff Narrows	26.5	1.1	26.5	19.8b
<u>Beaver River</u>	Minersville (RkyFd)	23.3	5.8	9.3	9.6
<u>Little Bear</u>	Hyrum	15.3	10.2	10.2	9.2
	Porcupine	11.3	2.8	2.5	3.1b
<u>Ogden</u>	Causey	6.9	0.8	1.5	2.1b
	Pineview	110.1	52.4	57.4	38.2
<u>Provo</u>	Deer Creek	149.7	80.5	104.0	95.3
<u>Sevier River</u>	Gunnison	18.2	7.0	14.9	7.7
	Otter Creek	52.5	23.6	34.3	21.9
	Piute	71.8	13.7	27.0	29.8
	Sevier Bridge	236.0	94.7	137.9	70.1
<u>Spanish Fork</u>	Strawberry	270.0	202.6	236.6	110.9
<u>Utah Lake</u>	Utah Lake	883.9	687.5	894.2	519.7
<u>Weber</u>	East Canyon	48.1	29.0	37.0	17.6
	Echo	73.9	37.9	42.4	35.3
	Lost Creek	20.0	12.7	12.8	12.0b
	Rockport	60.9	27.4	49.8	30.1
	Willard Bay	193.3	137.9	154.2	102.6b
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	18.2	24.6	17.9b
<u>Colorado</u>	Blue Mesa	829.5	478.3	533.6	- -
	Lake Powell	25002.0	18477.0	20179.0	- -
<u>Green</u>	Flaming Gorge	3749.0	3129.3	3432.0	- -
<u>Lakefork</u>	Moon Lake	35.8	4.9	17.0	14.5
<u>Price River</u>	Scofield	65.8	29.3	43.2	27.8
<u>San Juan</u>	Navajo	1696.0	1205.0	1182.3	- -
<u>San Rafael</u>	Huntington North	3.9	1.9	2.3	1.5b
	Joe's Valley	54.6	36.3	46.6	29.8b
	Mill Site	16.7	1.3	4.5	- -
<u>Strawberry</u>	Starvation	165.3	136.8	141.0	- -
<u>Uintah</u>	Bottle Hollow	11.3	10.5	10.5	- -

SNOW

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME												
GREAT BASIN												
UPPER BEAR RIVER (Above Harer, Idaho)												
Burts-Miller Ranch	12/27	2	0.3	2.7	- -	12/27	- -	- -	1.12	3.35b	33	
CCC Camp	12/29	6	0.8	5.0	4.9							
Hayden Fork	12/27	7	1.0	6.0	- -	12/27	- -	- -	2.25	6.00b	38	
Monte Cristo R.S.	12/28	6	0.6	9.1	- -	12/28	- -	- -	2.34	7.92b	30	
Salt River Summit	12/30	7	0.9	7.4	- -	12/30	.50	- -	.94	7.04	13	
Stillwater Camp	12/27	6	0.5	4.5	- -	12/27	- -	- -	1.65	2.96	55	
LOWER BEAR RIVER (Below Harer, Idaho)												
Cub River R.S.	12/27	0	0.0	4.3	- -							
Dry Basin	12/27	8	0.9	- -	- -							
Emigrant Summit	12/27	7	0.8	- -	9.6							
Emigration Canyon		Not Measured										
Franklin Basin	12/27	7	0.8	10.0	- -							
Garden City Summit	12/27	3	0.4	8.5	7.5a	12/27	- -	- -	1.36	8.82b	15	
Horseshoe Basin	12/27	8	0.9	- -	- -							
Klondike Narrows	12/27	0	0.0	7.8	7.6b							
Liberty Springs	12/27	9	1.1	- -	- -							
Little Bear (lower)	12/28	0	0.0	5.7	- -							
Little Bear (upper)	12/28	0	0.0	5.7	- -							
Slug Creek Divide	1/4	16	3.3	7.1	- -							
Steep Hollow #1	12/27	8	1.2	16.0	14.8a							
Steep Hollow #2	12/27	0	0.0	10.5	9.6a							
Strawberry Creek		Not Measured										
Strawberry Mink Divide		Not Measured										
Tony Grove Lake	12/27	5	0.6	- -	- -							
Tony Grove R.S.	12/27	0	0.0	4.5	4.6							
Willow Flat	12/27	0	0.0	6.6	- -	12/27	.11	- -	1.83	10.05b	18	
OGDEN RIVER												
Beaver Creek-Skunk Creek	12/28	0	0.0	5.0	- -							
Ben Lomond Peak	12/28	2	0.2	15.0	13.7b							
Ben Lomond (lower)	12/28	0	0.0	5.9	5.5	12/28	- -	- -	.70	11.36	6	
Causey Dam						12/28	- -	- -	1.21	6.49b	18	
Cutler Creek	12/28	0	0.0	- -	9.9b							
Dry Bread Pond	12/28	0	0.0	7.0	- -	12/28	- -	- -	1.06	6.87	15	
Sagebrush Flat	12/28	0	0.0	1.3	- -	12/28	- -	- -	1.37	4.86	28	
WEBER RIVER												
Beaver Creek R.S.	12/28	0	0.0	3.9	3.7							
Chalk Creek #1	12/27	11	1.8	10.0	- -							
Chalk Creek #2	12/27	11	1.5	7.7	- -							
Chalk Creek #3	12/27	4	0.2	4.2	- -	12/27	- -	- -	1.25	- -	- -	
Farmington Canyon (lower)	12/28	0	0.0	12.7	8.6b	12/28	.60	- -	2.50	- -	- -	
Farmington Canyon (upper)	12/28	5	0.4	15.6	11.9b							
Farmington G.S.						12/28	.58	- -	2.49	- -	- -	
Horse Ridge	12/28	1	0.1	7.1	- -	12/28	- -	- -	1.64	8.96b	18	
Kilfoil Creek	12/28	0	0.0	6.3	- -							
Lost Creek Reservoir	12/28	0	0.0	2.1	- -					3.87b		
Parleys Canyon Summit	12/27	4	0.4	9.2	7.5	12/27	- -	- -	.90	10.22	1	
Redden Mine (lower)	12/28	5	0.5	7.7	- -							
Redden Mine (upper)						12/28	- -	- -	1.77	- -	- -	
Smith & Morehouse	12/27	5	0.5	6.2	6.4	12/27	- -	- -	1.70	8.36	20	
PROVO RIVER & UTAH LAKE												
Camp Altamont	12/27	2	0.3	8.1	6.4							
Clear Creek Ridge #1	12/27	5	1.2	8.5	- -							
Clear Creek Ridge #2	12/27	6	0.8	7.3	8.4	12/27	- -	- -	1.25	- -	- -	
Clear Creek Ridge #3	12/27	2	0.3	3.6	- -							
Dutchman R.S.	12/27	1	0.2	8.2	- -	12/27	- -	- -	1.35	8.27b	16	
Hobble Creek Summit	12/27	1	0.2	7.5	- -	12/27	- -	- -	1.08	- -	- -	
Packard Canyon	12/27	2	0.3	- -	- -							
Payson R.S.	12/29	10	1.9	9.4	7.0	12/29	- -	- -	2.35	8.21	29	
Rock Bridge	12/29	8	1.5	6.6	4.8							
Soapstone R.S.	12/28	1	0.1	5.0	5.2	12/28	- -	- -	1.10	7.06	16	
South Fork R.S.	12/30	1	0.1	3.5	2.4							

SNOW

DRAINAGE BASIN and or SNOW COURSE	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
NAME											
PROVO RIVER & UTAH LAKE (continued)											
Timpanogas Cave Camp	12/30	0	0.0	2.0	0.9b						
Timpanogas Divide	12/27	3	0.3	12.4	10.5	12/27	.15	--	1.85	11.98	15
Trial Lake	12/28	5	0.5	9.2	10.5	12/28	--	--	1.72	10.07	17
JORDAN RIVER & GREAT SALT LAKE											
Beaver Creek Divide	12/28	3	0.2	4.6	--						
Lamb's Canyon	12/27	4	0.6	8.4	5.8b						
Lamb's Canyon #2	12/27	6	0.2	7.8	--						
Middle Canyon	12/29	8	1.8	7.6	5.7	12/29	--	--	2.80	7.28b	38
Mill Creek	12/27	4	0.8	9.4	--						
Mill D South Fork	12/29	3	0.4	8.6	7.3						
Silver Lake (Brighton)	12/29	2	0.3	11.5	9.9	12/29	.24	4.80	1.50	12.44	12
Vernon Creek	12/29	0	0.0	4.2	--	12/29	--	--	2.13	--	--
UPPER SEVIER RIVER (South of Richfield, UT)											
Box Creek	1/5	13	1.9	3.0	--	1/5	--	--	3.18	3.74	85
Bryce Canyon	12/30	0	0.0	1.2e	1.9						
Castle Valley	12/27	2	0.6	3.8	--	12/27	--	--	2.30	4.68	49
Duck Creek R.S.	12/27	0	0.0	3.8	5.2	12/27	--	--	2.35	8.37	28
Farview	12/30	0	0.0	--	--						
Harris Flat	12/27	0	0.0	2.3	3.1						
Kimberly Mine	1/5	20	3.2	5.2	5.3b	1/5	--	--	3.99	7.46	53
Midway Valley	12/27	4	1.0	4.7	8.9	12/27	--	--	2.45	--	--
Panguitch Lake	12/27	0	0.0	1.6	--	12/27	--	--	2.30	2.87	80
Rainbow Point	12/30	0	0.0	--	--						
Squaw Springs	1/5	8	0.7	1.2	--						
Widtsoe R.S.						12/27	Molested			2.91	
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dam	12/28	6	1.6	2.9	4.2	12/28	Molested			5.42	
Farnsworth Lake	1/5	18	3.5	6.2	7.3	1/5	--	--	4.45	8.22	54
G.B.R.C. Headquarters	12/28	5	2.3	5.6	6.4	12/28	.62	3.10	2.65	8.80	30
G.B.R.C. Majors						12/28	.20	1.80	1.20	4.60	26
G.B.R.C. Meadows	12/28	12	3.0	8.3	8.6	12/28	.47	3.80	2.93	9.90	30
G.B.R.C. Oaks						12/28	.31	2.00	1.60	5.40	30
Gooseberry R.S.	1/5	13	1.7	4.4	4.7	1/5	--	--	3.35	7.99	42
Mammoth R.S.-Cottonwood Crk	12/29	2	0.2	6.8	8.0b	12/29	--	--	2.08	8.09b	26
Middle Fork		Not Measured									
Mt. Baldy R.S.	12/28	11	2.3	6.8	8.8	12/28	--	--	2.55	8.24b	31
Oak Creek		Not Measured									
Pickle Keg Springs	12/28	9	2.4	4.5	--						
Pine Creek	1/5	23	3.9	--	--	1/5	--	--	6.70	--	--
Ree's Flat	12/29	8	1.2	--	--						
Shingle Mill	1/5	Not Measured		5.6	3.7b						
Thistle Flat	12/28	9	2.2	--	--						
BEAVER RIVER											
Beaver Canyon Power House						12/30	.16	--	2.02	4.12	49
Big Flat	12/30	6	1.7	4.2	--	12/30	--	--	2.55	4.86	52
Merchant's Valley (upper)	12/30	7	1.4	3.2	--	12/30	--	--	2.59	4.26	61
Otter Lake	12/30	6	1.1	3.7	--						
PAROWAN CREEK											
Birch Crossing	12/28	1	0.1	3.0	--						
Brian Head	12/27	9	2.2	8.3	9.5						
Ed Ward Flat	12/27	1	0.2	3.1	--						
Tall Poles	12/28	8	1.2	4.0	--	12/28	--	--	3.20	6.46a	50
Yankee Reservoir	12/27	3	0.6	3.0	--	12/27	--	--	2.50	3.95	63
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	12/27	0	0.0	1.6	--					4.40	
Long Flat	12/27	0	0.0	2.7	--	12/27	--	--	2.20	3.48	63

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
COAL CREEK											
SUSC Ranch	12/28	0	0.0	3.2	--						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Black's Fork G.S.-East Fork	12/27	6	0.8	3.1	--	12/27	--	--	1.84	5.54	33
Black's Fork Junction	12/27	6	0.5	3.0	--	12/27	--	--	1.48	2.23b	66
Buck Pasture		Not Measured									
Burnt Creek	12/29	5	0.5	2.5	--	12/29	--	--	2.07	4.94b	42
Grizzly Ridge	12/29	4	0.3	4.3	--	12/29	--	--	1.50	6.96b	22
Hewanta G.S.	12/27	6	0.9	2.9	--	12/27	--	--	1.72	2.45	70
Hickerson Park	12/27	7	1.0	3.6	--					2.59a	
Highline Trail	12/27	10	1.6	5.4	--	12/27	--	--	1.85	--	--
King's Cabin (lower)	12/27	T	0.0	3.3	--						
King's Cabin (upper)	12/27	4	0.3	4.1	--	12/27	--	--	3.66	3.56b	103
Spirit Lake	12/27	10	1.7	4.5	--	12/27	--	--	3.49	4.94b	71
Steel Creek Park	12/27	12	2.1	7.2	--						
Trout Creek	12/27	5	0.8	4.9	--						
DUCHESNE RIVER											
Brown Duck Ridge	12/28	5	0.5	7.0	--						
Current Creek	12/27	0	0.0	3.8	--	12/27	--	--	.55	2.18	25
Daniels-Strawberry Summit	12/27	0	0.0	5.6	5.5	12/27	--	--	1.09	8.13	13
East Portal	12/30	0	0.0	4.0	4.4b	12/30	0.8	--	1.11	8.92	12
Indian Canyon	12/27	4	0.4	3.8	5.3b	12/27	--	--	.74	6.71b	11
Jackson Park	12/28	4	0.3	4.5	--	12/28	--	--	2.54	--	--
Lake Basin	12/28	1	0.2	8.0	--	12/28	--	--	.41	--	--
Lakefork Mountain	12/28	1	0.1	3.6	--	12/28	--	--	3.19	3.11	103
Lakefork Mountain #2		Not Measured									
Lakefork Mountain #3	12/28	0	0.0	2.6	--						
Mosby Mountain	12/28	2	0.1	3.4	4.6						
Paradise Park	12/28	0	0.0	5.9	5.8	12/28	--	--	2.01	8.30	24
Rock Creek Ranch	12/28	1	0.1	1.9	--	12/28	--	--	1.88	2.18	86
Strawberry Divide	12/30	0	0.0	7.6	7.4b						
PRICE RIVER											
Dry Valley Divide	12/27	2	0.3	4.1	4.2b						
Jones Ranch	12/27	0	0.0	3.6	2.6b						
Mud Creek	12/27	2	0.4	4.2	5.4b	12/27	--	--	1.28	6.56	20
White River #1	12/27	4	0.5	4.2	--	12/27	--	--	1.15	4.46	26
White River #2	12/27	1	0.1	3.5	--						
White River #3	12/27	0	0.0	2.9	--						
SAN RAFAEL RIVER											
Buck Flat	12/28	4	0.5	3.6	--	12/28	--	--	1.80	5.68	32
Gooseberry Reservoir	12/29	1	0.1	6.9	7.2b	12/29	--	--	2.37	7.99	30
Huntington-Horseshoe	12/29	8	1.2	--	--						
Orange Olsen	12/28	0	0.0	0.0	--	12/28	Molested			2.81a	
Red Pine Ridge	12/28	4	0.5	4.8	--	12/28	--	--	2.13	6.32	34
Rush Pond	12/28	5	0.5	2.9	--						
Sceley Creek	12/28	3	0.8	--	--						
Stuart R.S.	12/28	0	0.0	2.2	--	12/28	--	--	1.14	3.94	29
Upper Joe's Valley	12/29	4	0.3	2.5	--						
Wrigley Creek	12/28	2	0.2	2.8	--						
MUDDY RIVER											
Black's Fork	12/28	4	0.5	3.6	--						
Dill's Camp	12/28	2	0.2	2.8	--	12/28	--	--	1.52	3.93a	38
FREMONT RIVER											
Black's Flat-U.M. Creek	1/5	11	1.5	2.6	--	1/5	--	--	2.79	3.69	76
Fish Lake	1/5	6	0.6	1.7	--	1/5	--	--	2.35	2.56b	92
Johnson Valley	1/5	5	0.7	1.6	--						

SNOW

SNOW

DRAINAGE BASIN and or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	12/29	0	0.0	7.9	- -	12/29	- -	- -	.85	7.43	11
Camp Jackson	12/29	0	0.0	5.9	- -	12/29	- -	- -	.50	6.68b	8
LaSal Mountain (lower)	12/29	0	0.0	3.9	- -						
LaSal Mountain (upper)	12/29	0	0.0	4.9	- -	12/29	- -	- -	1.50	5.45	28
ESCALANTE RIVER											
Widtsoe-Escalante Summit	12/27	0	0.0	2.2	3.1						
Widtsoe-Escalante #2	12/27	3	0.2	2.3	4.1						
Widtsoe-Escalante #3	12/27	5	0.6	4.0	5.1b	12/27	.12	- -	2.42	6.56	37
VIRGIN RIVER											
Kolob-Crystal	12/27	4	1.4	5.5	- -						
Long Valley Junction	12/27	0	0.0	0.0	1.6						
Webster Flat	12/27	0	0.0	4.8	6.6b	12/27	- -	- -	3.35	8.50	39
a - Partly Estimated											
b - Average of all past record - less than 15 years											
† - 1958-72 15 year average period											

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

GREAT BASIN DRAINAGE

NO

STATE

RANK

TWP

RGE

ELEV

MT

STATL

NAVE

Tk

UPPER BEAR RIVER (above Harer, Idaho)

W

Big Park

10G11

27N

117W

8,700

11J18P

U

Timpanogas Cave Camp

27 45 2E

5,500

10J31P

U

Tekowasap Peak

23 1N 11E

9,800

10G7

W

Big Miller Ranch

28N

117W

7,900

11J19P

U

Timpanogas Divide

28 45 3E

8,100

9J12ap

U

Windy Park

1 15 20E

9,400

10J36P

U

Gold Hill

11N

9E

10,000

10J22ap

U

Alwood Basin

21 1S 15E

10,250

10J37P

U

Hayden Fork

25 1N

9E

9,400

10G18

W

Kelly Ranger Station

26N

118W

8,200

10J9PST

U

Brown Duck Ridge

2 2N 6W

10,300

10G17S

W

LaBarge Guard Station

33N

116W

9,000

10J9PST

U

Chepato-Whiterocks Lakes

3 1S 17E

10,300

10J35P

U

Lily Lake

30N

116W

9,300

11J23MP

U

Current Creek

31 15 10W

7,800

11H12PST

U

Monte Cristo R. S.

4 2N

10E

8,960

11J23MP

U

Daniels-Strowberry Summit

20 25 12W

8,000

10G10

W

Piney Labarge x

29N

114W

8,820

11J7P

U

East Portal

36 7S 6E

11,000

10G16

W

Poison Meadows x

-29 30N

116W

8,500

10J26ap

U

Five Point Lake

28 4N 5W

11,000

10G8P

W

Salt River Summit x

25 29N

115W

7,900

10K1PST

U

Indian Canyon

2 11S 10E

9,100

10J15P

U

Jackson Park

23 3N 4W

11,300

10J15P

U

Jackson Park

23 3N 4W

11,300

10J77P

W

Snider Basin x

35 29N

118W

8,400

10J38P

U

Lake Basin

23 3S 8W

10,800

10J38P

U

Lake Basin

23 3N 4W

11,300

10J77P

W

Stillwater Camp

32 2N

10E

8,350

10J25a

U

Lakefork Basin

13 4N 7W

11,100

11H37P

U

Bug Lake

18 11N

5E

7,950

11H36P

U

Bunchgrass

15 13N

3E

8,400

11G11

U

Christensen Ranch

27 13N

10E

5,600

11H38P

U

Cinnamon Mountain

5 8N

3E

7,300

12H12

U

Clarkston Mountain

29 14N

2W

6,300

11G12

U

Cub River Ranger Station

15 15S

4E

3,450

11H33P

U

Dorris Creek

10N

4E

8,400

11J37P

U

Dry Springs

30 13S

42E

7,900

11G14

U

Dry Spring Flat

31 13S

37E

6,350

12G4

U

Emigrant Summit

21 12S

42E

7,350

11G6

U

Emigration Canyon (mouth)

24 12S

42E

6,500

11G8MPST

U

Franklin Basin

1 16S

41E

8,000

11H7MP

U

Garden City Summit

34 & 35 14N

4E

7,600

12H45P

U

George Peak

4 13N

4W

9,000

12H2P

U

Hell Canyon

24 11N

2W

6,400

11H40P

U

Herd Hollow

4 11N

3E

7,000

11H35P

U

Horseshoe Basin

31 13S

42E

8,000

11H1MP

U

Klandike Narrows

10 14N

3E

7,400

11G13

U

Liberty Springs

7 13S

42E

8,240

11H26

U

Little Bear (lower)

15 8N

1E

6,600

11H25P

U

Little Bear (upper)

2 11N

2E

9,000

12G3

U

Madison Canyon

32 13S

37E

6,800

11H46P

U

Paradise Canyon

36 10N

2E

7,650

11G5

U

Slap Creek Divide

15 10S

4E

7,225

11H27

U

Steep Hollow #1

7 14N

3E

7,700

11H28

U

Steep Hollow #2

9 13S

41E

5,800

11G9

U

Strawberry Creek

9 13S

41E

5,800

11G10

U

Strawberry Mink Divide

14 13S

41E

6,800

11H2PST

U

Tony Grove Lake

5 13N

3E

7,400

11H3M

U

Tony Grove Ranger Station

11 13N

3E

6,250

11H41P

U

Trigona Springs

29 12N

4E

7,600

11G4P

U

Willow Flat

2 15S

41E

6,100

11H14M

U

Beaver Creek-Skunk Creek

22 8N

3E

7,150

11H8PST

U

Ben Lomond Peak

3 7N

1W

8,000

11H30P

U

Ben Lomond (lower)

1 7N

1W

8,000

11H35P

U

Ben Lomond Trail

2 7N

1W

8,000

11H29

U

Causey Dam

34 7N

3E

5,500

11H31MP

U

Cutter Creek

3 7N

3E

5,900

11H34P

U

Dry Blood Pond

3 8N

4E

6,780

11H44P

U

Outsider's Peak

21 6N

1E

8,620

11H45P

U

Multiple Fork Ogden

26 6N

3E

7,700

11H45P

U

Middle Fork Ogden

16 7N

2E

8,420

11H49

U

Powder Mountain Highway

6 7N

2E

8,250

11H48

U

Powder Mountain Saddleway

1 7N

1E

8,400

11H15P

U

Sagebrush Flat

21 7N

3E

6,300

11J24

U

Beaver Creek R.S.

28 2S

7E

7,500

11J11P

U

Chalk Creek #1

17 & 20 4N

9E

9,100

11J2MP

U

Chalk Creek #2

2 2N

8E

7,900

11J3MP

U

Chalk Creek #3

4 2N

8E

7,900

11J12P

U

Farmington Canyon (lower)

14 3N

1E

6,950

11J11PST

U

Farmington Canyon (upper)

26 3N

1E

8,000

11H44a

U

Francis Canyon

29 5N

6E

7,400

11J45

U

East Shingle Lake

6 3N

10W

9,800

11J37P

U

Hardscrabble

16 2N

2E

6,500

11H43P

U

Hoodoo Knoll

22 5N

3E

8,350

11H21PST

U

Horse Ridge

1 6N

4E

8,260

11H31P

U

Killolt Creek

20 6N

5E

7,300

11H2P

U

Lost Creek

27 6N

3E

6,125

11J43

U

Park City Summit

20 2S

4E

9,300

11J13P15

U

Parley's Canyon Summit

5 3S

3E

7,500

11H38P

U

Paradise Canyon

22 2N

4E

8,000

11J16

U

Paradise Canyon (lower)

4 2N

4E

8,500

11H3P

U

Redden Mine (upper)

2 2N

4E

8,500

11J39P

U

Sagebrush Lake

1 2S

5E

9,000

11J40P

U

Shingle Mill Flat

17 15N

5E

8,400

11J4PST

U

Smith & Morehouse

25 1N

7E

7,600

11J20

U

Camp Altonot

29 4S

3E

7,300

11K21PST

U

Clear Creek Ridge #1

18 11S

6E

9,200

11K22PST

U

Clear Creek Ridge #2

18 11S

6E

9,200

11K23PST

U

Clear Creek Ridge #3

18 11S

6E

9,200

11J5P

U

Dudman R. S.

27 7S

7E

7,350

11J22P

U

Emigrant Summit

27 7S

7E

7,350

11J56P

U

Emigrant Summit

27 7S

7E

7,350

11J56P

U

Emigrant Summit

27 7S

7E

7,350

11K1P

U

Packard Canyon

36 4S

4E

9,100

11K1P

U

Packard Canyon

36 4S

4E

9,100

11K2

U

Poysan R. S.

30 10S

3E

8,050

11K2

U

Poysan R. S.

30 10S

3E

8,050

11J25P

U

Rack Bridge

14 3S

8E

7,800

11J19

U

Sagebrush R. S.

9 3S

8E

7,800

11J19

U

South Fork R. S.

24 4S

2E

6,100

UPPER GREEN RIVER IN UTAH (above Duchesne River)

U

Ashley Twin Lakes

9J11aP

20 1S

19E

10,500

10J21P

U

Black Fork G.S.

25 2N

12E

9,300

10J22P

U

Black's Fork Junction

33 3N

12E

8,925

10J23a

U

Black Pasture

14 3N

11E

9,700

9J11P

U

Bumt Creek

4 1N

20E

7,900

9J13P

U

Grizzly Ridge

8 1S

22E

8,500

10J24ap

U

Henny's Fork

29 3N

14E

10,000

10J4P

U

Hewitno G. S.

33 3N

13E

9,500

9J18P

U

Hickerson Park

24 2N

17E

9,100

9J15P

U

Highline Trail

23 1N

19E

10,250

10J1

U

Hole-in-the-Rock

13 2N

15E

9,150

10J3

U

Hole-in-the-Rock G. S.

32 3N

16E

8,300

9J2

U

King's Cabin (lower)

22 1S

21E

8,600

9J1PST

U

King's Cabin (upper)

22 1S

21E

8,700

10J2

U

McCoy Park

6 1N

16E

8,550

10J2P

U

Middle Beaver Creek

31 3N

16E

8,550

9J10aP

U

Rocky Lake

3 3N

18E

10,400

9J7P

U

Spirit Lake

10 1N

17E

9,900

10J20P

U

Steel Creek Park

17 2N

13E

9,300

9J16PST

U

Trout Creek

9 1S

20E

9,200

PROVO RIVER & UTAH LAKE

U

Camp Altonot

11J20

29

4S

3E

7,300

11K21PST

U

Clear Creek Ridge #1

18 11S

6E

9,200

11K22PST

U

Clear Creek Ridge #2

18 11S

6E

9,200

11K23PST

U

Clear Creek Ridge #3

18 11S

6E

9,200

11J5P

U

Dudman R. S.

27 7S

7E

7,350

11J22P

U

Emigrant Summit

27 7S

7E

7,350

11J56P

U

Emigrant Summit

27 7S

7E

7,350

11J56P

U

Emigrant Summit

27 7S

7E

7,350

11K1P

U

Packard Canyon

36 4S

4E

9,100

11K1P

U

Packard Canyon

36 4S

4E

9,100

11K2

U

Poysan R. S.

30 10S

3E

8,050

11K2

U

Poysan R. S.

30 10S

3E

8,050

11J25P

U

Rack Bridge

14 3S

8E

7,800

11J19

U

Sagebrush R. S.

9 3S

8E

7,800

11J19

U

South Fork R. S.

24 4S

2E

6,100

LEGEND

Numbered System (example)

10J7F Snow-Course Only

10J7F Snow-Course and Precipitation Station

10J7F Snow-Course and Soil Moisture Station

10J7F Snow-Course, Soil Moisture Station and Aerial Marker

10J7F Snow-Course, Soil Moisture Station and Precipitation Station

10J7F Aerial Marker Only

10J7F Aerial Marker and Precipitation Station

10J7F Aerial Marker and Precipitation Station Only

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precipitation Station Only (Snow-Precipitation)

10J7F Aerial Marker and Precip

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
FEDERAL BLDG., - Room 4012
125 SOUTH STATE ST.
SALT LAKE CITY, UTAH 84138

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101



FIRST CLASS MAIL

USDA
NATIONAL AGRICULTURAL LIBRARY
COLUMBIA BUREAU, RECORD
WASHINGTON, D.C. 20250

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*